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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/762,611

01/21/2004

Takamasa Ishii

1232-5257

5044

27123

7590

12/13/2005

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EXAMINER

GABOR, OTILIA

ART UNIT

PAPER NUMBER

2884

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/762,611	Applicant(s) ISHII ET AL.	
	Examiner Otilia Gabor	Art Unit 2884	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07/08/04, 07/29/04</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on page 8, line 19 "m rows" should be "n rows".

Appropriate correction is required.

Drawings

2. Figures 8A and 8B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Morii et al. (US 2004/0101100 A1) or Kobayashi et al. (U. S. Patent 6,967,332).

Both Morii and Kobayashi disclose a radiographic apparatus comprising: a substrate; a conversion portion having a plurality of first semiconductor conversion devices (1008, 101) arranged on the substrate in a matrix (mxn) to convert radiation into an electrical signal, and switching devices (1007, 102) that are connected to each of the plurality of first semiconductor conversion devices; a plurality of second semiconductor conversion devices (1009, 108) arranged on the same substrate to convert radiation into an electrical signal to detect irradiation of radiation incident on the conversion portion; wiring lines connected to each of the plurality of first conversion devices and connected to a plurality of printed wiring boards (1002, 1004, 105, 106); where the second conversion devices are collectively arranged in a region where the first conversion devices are collectively arranged (see Figs.1 of Kobayashi and Fig.1 of Morii).

Both Morii and Kobayashi disclose control lines for controlling the operation of the switching devices and signal lines for transmitting signals output from first conversion devices where these lines are arranged perpendicular to each other, and that these lines are equal in number, and Kobayashi discloses in Fig.1 that the first conversion devices are separated in two even groups where the second conversion

devices are arranged at the boundary line parallel to the two sides serving as an axis of symmetry (see Figs.1 of both and Fig.28 of Morii). Both disclose that the radiographic system comprises a radiation source, an image processor, a transmission unit and a display system for displaying the images obtained.

5. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

6. Claims 1-9 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Haendle et al. (U. S. Patent 5,448,613).

Haendle discloses a radiographic apparatus, the apparatus comprising: a substrate; a conversion portion (4) having a plurality of first conversion devices arranged on the substrate in a matrix (17) to convert radiation into an electrical signal; a plurality of second conversion devices (23) arranged on the substrate to convert incident radiation into an electrical signal; wiring lines connected to each of the plurality of semiconductor conversion devices, and connected to printed wiring boards (19, 18) that are arranged perpendicular to each other (see Figs.1, 2), where the plurality of second conversion devices are positioned in a region where the first conversion devices are collectively arranged. Haendle discloses that the second conversion devices (23) are arranged so that they form an axis of symmetry for the plurality of first conversion devices (see Fig.2 where pixels 23 separate the two groups of first semiconductor conversion devices 17 into equal parts). Haendle discloses shift registers and control circuit including control wiring lines and signal wiring lines. Haendle also discloses that

this detection apparatus is included in a X-ray system which also includes an X-ray source, a transmission unit and an image processor with a display for displaying the image obtained.

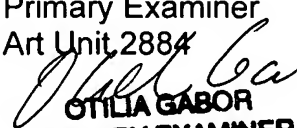
Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Otilia Gabor whose telephone number is 571-272-2435. The examiner can normally be reached on Monday-Friday between 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Otilia Gabor
Primary Examiner
Art Unit 2884

OTILIA GABOR
PRIMARY EXAMINER